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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/697,605	9/697,605 10/26/2000		Michael C. Park	EWG-123-US	3504
758	7590	05/13/2004		EXAMINER .	
	CK & WES		VO, TUNG T		
SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041				ART UNIT	PAPER NUMBER
				2613	1.0
				DATE MAILED: 05/13/2004	12

Please find below and/or attached an Office communication concerning this application or proceeding.

			May					
	Application No	Applicant(s)	- · · /-					
	09/697,605	PARK ET AL.						
Office Action Summary	Examiner	Art Unit						
	Tung T. Vo	2613						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a CANDONE cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication ED (35 U.S.C. § 133).	on.					
Status								
1) Responsive to communication(s) filed on 14 A	pril 2004.							
	action is non-final.							
	ince this application is in condition for allowance except for formal matters, prosecution as to the merits is losed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) ⊠ Claim(s) <u>5 and 16-34</u> is/are pending in the app 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,16,17,19-21,23-26,29,30 and 32-34</u> 7) ⊠ Claim(s) <u>18,22,27,28 and 31</u> is/are objected to 8) □ Claim(s) are subject to restriction and/or	vn from consideration. is/are rejected.	·						
Application Papers	•							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ijected to. See 37 CFR 1.121((d).					
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3, 4, 9.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:							

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claim 5 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 33 and 44 are rejected under 35 U.S.C. 102(e) as being anticipated by Katayama et al. (US 5,982,951).

Re claims 33 and 34, Katayama discloses a calibrations for calibrations a panoramic camera system (a user takes photographs by adjusting zoom, tilt, pan, and focus, col. 5, lines 45-50) that captures overlapping single view images that are seams together into a panorama, the structure comprising:

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an edge including indicia (Pa1...Pa5, Pb1...Pb5 of fig. 22);

a mount for panoramic camera system (the panoramic must be inherently mounted on or secured with a mechanism such as tripod, or a person/user holds the panoramic camera in a position to capture single image), the mount position so that the panoramic camera system captures a first single view image including at least some of the indicia and also capture a second single view image include at least some indicia, wherein the first and second view images are to be seamed together along the edge (250 of fig. 19, fig. 22).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 5, 16-17, 19-21, 23-26, 29-30, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Xiong (US 6,359,617 B1) in view of Katayama et al. (US 5,982,951).

Re claims 5, 16-17, 19-21, 26, 29, 30, and 32, Xiong teaches a computer readable medium containing a software program for implementing a method for calibrating a panoramic camera system (a panoramic camera or a fisheye lens camera) (210, 224 of fig. 2) capturing overlapping single view images (figs. 1a and 1b) that are seamed together (fig. 11a and 11b) into a panorama, the method comprising,

receiving a first single view image of structure (IMAGE 1 of fig. 11b)

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receiving a second single image of the structure (IMAG N-1 of fig. 11b), wherein the first and second single view images are to be seamed together along the edge (1120 of fig. 11b).

adjusting camera parameters (col. 9, lines 1-21, e.g. camera pan, tilt, roll and skew, and the brightness and contrast of images, the user interface may have the ability to adjust the aforementioned parameters for each image individually, or may have the ability to adjust parameters for images captured with a particular methodology, such as equal angular increments in latitude and longitude) to seam together the first and second single view images along with the edge (1120 of fig. 11b).

It is noted that Xiong does not particularly teach the structure including first indicia along an edge of the structure that contains a row of indicia, and second indicia along the same edge of the structure that contains the same row indicia and other row indicia, two rows are separated that accounts for parallax between capture of the first single view image and capture of the second single view image as claimed.

However, Katayama et al teaches the structure including first indicia along an edge of the structure that contains a row of indicia (interpreted a sample pixel Pa1 of image A of fig. 22 is first indicia, wherein the Pa1 is along the edge), and second indicia along the same edge of the structure that contains the same row indicia and other row indicia (Pb1, a sample pixel of the image B, of fig. 22 is second indicia; and wherein Pa1 and Pb1 are seamed or combined to form a panoramic image), and two rows are separated that accounts for parallax between capture of the first single view image and capture of the second single view image (3230, 240 of fig. 19, fig. 22). Therefore, taking the teachings of Xiong and Katayama as a whole, it would have been obvious to one of ordinary skill in the art to incorporate the teachings of Katayama into the

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panoramic camera system of Xiong for the same purpose of seaming the first indicia and second indicia of the single view images as claimed. Doing would provide the system to accurately form the panoramic image.

Re claims 23-25, Xiong further teaches where at least one of camera parameter is selected from a group consisting of offset, distortion, brightness, contrast, heading, pitch, and field of view (fig. 6) and automatically locking out one of the camera parameters during adjustment.

Allowable Subject Matter

6. Claims 18, 22, 27-28, and 31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the previous Office Action, Paper No 8.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung T. Vo whose telephone number is (703) 308-5874. The examiner can normally be reached on 6:30 AM - 3:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris. Kelley can be reached on (703) 305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TUMGT, YOU PATENT EXAMINER Tung T. Vo Examiner Art Unit 2613

T.Vo